

October 15

Our goals tonight

- be able to calculate mean, median, mode, quartiles, percentiles
- demonstrate thorough understanding of geometry

Keywords

Mean

Median

Mode

Average

Percent

Warm Up

From the decks of cards, choose 10 cards.
What can you do with these cards?

Q Spades 12 K ♦ 13
Q diamond 12 Ace ♡ 1
4 ♡ Q ♡ 12
Ace diamonds 1 J ♡ 11
K ♡ 13 Ace clubs 1

What 10 cards did we pick?

1, 1, 1, 1, 4, 11, 12, 12, 13, 13
1, 1, 1, 1, 4, 11, 12, 12, 13, 13
1, 1, 1, 1, 4, 11, 12, 12, 13, 13
1, 1, 1, 1, 4, 11, 12, 12, 13, 13

Add the numbers together: 80

How many cards did we pick: 10

Divide these numbers: 8

You have just calculated the MEAN

What number appears most often? 12, 1
This is called the MODE bi-modal

Put the cards in order from smallest to largest.
Take away the smallest card.

What card is now in the middle? _____

This is called the _____

Ex 1 - find 3M's, & Quartiles

2, 4, 7, 9, 12, 15, 17, 18, 19, 23
10th's 5.5 13.5 18.5
Q1 median Q3

Ex 2 - find 3M's & Quartiles

2, 3, 7, 5, 2, 7, 9, 3, 11, 16, 12
11th's

2, 2, 3, 3, 5, 7, 7, 9, 11, 12, 16
Q1 median Q3

mode: 2, 3, 7. → tri-modal

mean: $\frac{2+2+3+3+5+7+7+9+11+12+16}{11}$
 $\frac{49}{11}$
 $= 7$